

Bearing for a Reciprocating Shaft of a Reciprocating Saw

ABSTRACT

An adjustable reciprocating saw has the ability to adjust the orientation of the saw blade in relation to the rest of the tool. The saw blade can pivot about two transverse axes, one parallel with and one perpendicular to the reciprocating motion axis of the saw blade. The portions of the saw's housing which rotate relative to one another are attached with a rotating joint comprising a pin and groove design. Rotation locks selectively prevent rotation of the saw blade about each axis. The rotation locks can be released through simply depressing buttons on the saw. A rear internal bearing increases the durability and decreases the size of the saw. A keyless adjustable shoe is mounted to the saw.